

Sub C4
The following claims have been amended:

A2 Claim 2 (Amended) The covering of claim 1 further comprising ePTFE material.

A3 Sub B2
Claim 5 (Amended) An implantable device covering comprising:
a sheet of flexible material having first and second surfaces,
the first surface being flat,
the second surface having peaks and troughs and being adapted to interface
with body tissues.

Sub C>>
Claim 6 (Amended) The covering of claim 5 further comprising ePTFE material.

A4 Sub B3
Claim 13 (Amended) An implantable device covering comprising:
a sheet of flexible material having first and second surfaces,
the first surface being less-textured than the second surface,
the second surface being textured and having first and second planar surfaces, the first and
second planar surfaces being in non-coplanar relation.

Please add the following new claims:

15. A dual-sided, biocompatible, textured structure for use in a body comprising:

a structure, the structure having a first side and a second side,
characterized in that:

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the first side is substantially planar, and that

the second side has a complex surface, the complex
surface having a plurality of regions of varying heights, the
tallest regions having a substantially planar upper surface, the
planar surface defining a first plane, and the lowest regions

defining a second plane, where the second plane is non-coplanar with the first plane,

wherein the complex surface is adapted for contact with the body.

16. The dual-sided, biocompatible, textured structure of claim 15 wherein the complex surface comprises a pattern.

17. The dual-sided, biocompatible, textured structure of claim 16 wherein the pattern is predictable.

18. The dual-sided, biocompatible, textured structure of claim 17 wherein the pattern is repetitive.

19. The dual-sided, biocompatible, textured structure of claim 17 wherein the pattern is uniform.

20. The dual-sided, biocompatible, textured structure of claim 16 wherein the complex surface includes a plurality of hexcels.

21. The dual-sided, biocompatible, textured structure of claim 20 wherein the hexcels comprise nested hexcels.

22. The dual-sided, biocompatible, textured structure of claim 16 wherein the patterns include geometric patterns.

23. The dual-sided, biocompatible, textured structure of claim 22 wherein the geometric pattern includes squares.

24. The dual-sided, biocompatible, textured structure of claim 22 wherein the geometric pattern includes circular patterns.

25. The dual-sided, biocompatible, textured structure of claim 15 wherein the lateral widths of the tallest regions and the lowest regions differ.

26. The dual-sided, biocompatible, textured structure of claim 25 wherein the lateral width of the tallest regions is less than the width of the lowest regions.

27. The dual-sided, biocompatible, textured structure of claim 15 wherein the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 90% or less.

28. The dual-sided, biocompatible, textured structure of claim 15 wherein the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 80% or less.

29. The dual-sided, biocompatible, textured structure of claim 15 wherein the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 70% or less.

30. The dual-sided, biocompatible, textured structure of claim 15 wherein the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 50%.

31. The dual-sided, biocompatible, textured structure of claim 15 wherein the structure is a laminated structure.

32. The dual-sided, biocompatible, textured structure of claim 31 wherein the structure is a multi-laminate structure.

33. The dual-sided, biocompatible, textured structure of claim 15 wherein the top surface of the tallest regions is substantially parallel to the surface of the lowest regions.

34. The dual-sided, biocompatible, textured structure of claim 15 wherein the complex surface is arranged to stimulate high tissue ingrowth.

35. The dual-sided, biocompatible, textured structure of claim 15 wherein the complex surface is arranged to disorganize scar tissue.

36. The dual-sided, biocompatible, textured structure of claim 15 wherein the lowest region of the complex surface comprises a fabricated surface.

37. The dual-sided, biocompatible, textured structure of claim 15 further including a device for implantation in the body, wherein the structure is disposed adjacent the device.

38. The dual-sided, biocompatible, textured structure of claim 37 wherein the textured structure is oriented away from the device.

39. The dual-sided, biocompatible, textured structure of claim 37 wherein the textured structure is oriented toward from the device.

40. The dual-sided, biocompatible, textured structure of claim 37 wherein the device is a prosthetic device.

41. The dual-sided, biocompatible, textured structure of claim 40 wherein the prosthetic device is an implant.

42. The dual-sided, biocompatible, textured structure of claim 41 wherein the implant is a gel filled implant.

43. The dual-sided, biocompatible, textured structure of claim 15 wherein the pattern includes a plurality of parallel wells.

44. The dual-sided, biocompatible, textured structure of claim 41 wherein the second plane is lower than the first plane by at least 7% of the thickness of the structure.

45. The dual-sided, biocompatible, textured structure of claim 41 wherein the second plane is lower than the first plane by at least 17% of the thickness of the structure.

46. The dual-sided, biocompatible, textured structure of claim 41 wherein the second plane is lower than the first plane by at least 27% of the thickness of the structure.

47. The dual-sided, biocompatible, textured structure of claim 41 wherein the second plane is lower than the first plane by substantially 50% of the thickness of the structure.

48. A dual-sided, biocompatible, textured structure for use in a body, comprising:
a first side, defining a first plane,
a second side, the second side having a complex texture, characterized in that the second side includes a plurality of wells, the lowest points of which define a second plane, the second plane being non-coplanar with the first plane, and further includes a plurality of structures which project in a direction substantially perpendicular to the second plane.

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49. The dual-sided, biocompatible, textured structure of claim 48 wherein the complex texture comprises a pattern.

50. The dual-sided, biocompatible, textured structure of claim 49 wherein the complex texture includes a plurality of hexcels.

51. The dual-sided, biocompatible, textured structure of claim 50 wherein the hexcels comprise nested hexcels.

52. The dual-sided, biocompatible, textured structure of claim 48 wherein the structure is a laminated structure.

53. The dual-sided, biocompatible, textured structure of claim 52 wherein the structure is a multi-laminate structure.

54. The dual-sided, biocompatible, textured structure of claim 48 wherein the complex texture is arranged to stimulate high tissue ingrowth.

55. The dual-sided, biocompatible, textured structure of claim 48 wherein the complex texture is arranged to disorganize scar tissue.

56. The dual-sided, biocompatible, textured structure of claim 48 wherein the lowest region of the complex texture comprises a fabricated surface.

57. The dual-sided, biocompatible, textured structure of claim 48 further including a device for implantation in the body, wherein the structure is disposed adjacent the device.

58. The dual-sided, biocompatible, textured structure of claim 48 wherein the texture pattern includes a plurality of parallel wells.

59. The dual-sided, biocompatible, textured structure of claim 41 wherein the second plane is lower than the projecting portions by at least 7% of the thickness of the structure.

60. A dual-sided, biocompatible, textured structure for use in a body, comprising:
a sheet having a first side and a second side,

the second side having a complex texture, characterized in that the second side includes a plurality of projecting structures, the tallest portions of the projecting structures defining a first plane, the second side further including a plurality of wells, the lowest points of which define a second plane, the second plane being non-coplanar with the first plane, and further characterized in that the projecting structures project in a direction substantially perpendicular to the second plane.

61. The dual-sided, biocompatible, textured structure of claim 60 wherein the complex texture comprises a pattern.

62. The dual-sided, biocompatible, textured structure of claim 61 wherein the complex texture includes a plurality of hexcels.

63. The dual-sided, biocompatible, textured structure of claim 62 wherein the hexcels comprise nested hexcels.

64. The dual-sided, biocompatible, textured structure of claim 60 wherein the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 90% or less.

65. The dual-sided, biocompatible, textured structure of claim 60 wherein the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 80% or less.

66. The dual-sided, biocompatible, textured structure of claim 60 wherein the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 70% or less.

67. The dual-sided, biocompatible, textured structure of claim 60 wherein the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 50%.

68. The dual-sided, biocompatible, textured structure of claim 60 wherein the structure is a laminated structure.

69. The dual-sided, biocompatible, textured structure of claim 68 wherein the structure is a multi-laminate structure.

70. The dual-sided, biocompatible, textured structure of claim 60 wherein the complex surface is arranged to stimulate high tissue ingrowth.

71. The dual-sided, biocompatible, textured structure of claim 60 wherein the complex surface is arranged to disorganize scar tissue.

72. The dual-sided, biocompatible, textured structure of claim 60 wherein the lowest region of the complex surface comprises a fabricated surface.

73. The dual-sided, biocompatible, textured structure of claim 60 further including a device for implantation in the body, wherein the structure is disposed adjacent the device.

74. The dual-sided, biocompatible, textured structure of claim 60 wherein the pattern includes a plurality of parallel wells.

75. The dual-sided, biocompatible, textured structure of claim 60 wherein the second plane is lower than the first plane by at least 7% of the thickness of the structure.

76. A dual-sided, biocompatible, textured structure for use in a body, comprising:
a first sheet having a first side and a second side,
the first side being substantially planar,
a second sheet having a first side and a second side,
the second side of the first sheet being in laminate relationship with the first side of the second sheet, and

the second side of the second sheet having a complex surface including a plurality of fabricated wells.

77. The dual-sided, biocompatible, textured structure of claim 76 wherein the complex surface comprises a pattern.

78. The dual-sided, biocompatible, textured structure of claim 77 wherein the complex surface includes a plurality of hexcels.

79. The dual-sided, biocompatible, textured structure of claim 78 wherein the hexcels comprise nested hexcels.

80. The dual-sided, biocompatible, textured structure of claim 76 wherein the complex surface includes a plurality of projecting portions.

81. The dual-sided, biocompatible, textured structure of claim 80 wherein the projecting portions include a planar portion.

82. The dual-sided, biocompatible, textured structure of claim 81 wherein the planar portions are substantially parallel to the first side of the first sheet.

83. The dual-sided, biocompatible, textured structure of claim 76 wherein the complex surface is arranged to stimulate high tissue ingrowth.

84. The dual-sided, biocompatible, textured structure of claim 76 wherein the complex surface is arranged to disorganize scar tissue.

85. The dual-sided, biocompatible, textured structure of claim 76 wherein the lowest region of the complex surface comprises a fabricated surface.

86. The dual-sided, biocompatible, textured structure of claim 76 further including a device for implantation in the body, wherein the structure is disposed adjacent the device.

87. The dual-sided, biocompatible, textured structure of claim 76 wherein the pattern includes a plurality of parallel wells.

88. The dual-sided, biocompatible, textured structure of claim 1 wherein the complex surface is arranged to stimulate high tissue ingrowth.

89. The dual-sided, biocompatible, textured structure of claim 1 wherein the complex surface is arranged to disorganize scar tissue.